

U.S.S.N. 10/626,125

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COMPLETE LISTING OF CLAIMS**What is claimed is:**

1. (Currently amended) A reduced aerosol generating formulated personal care or cleaning product comprising a) 0.0001% to about 5.0% of a high molecular weight polymer selected from polyethylene oxide, polyacrylamide, substituted acrylamides, and gums and b) one or more personal care or cleaning product components, wherein said polymer acts as is an anti-misting agent and increases a D_{v50} of the formulated personal care or cleaning product by 10 - 200% over the corresponding non-formulated personal care or cleaning product.
2. (Canceled)
3. (Original) The reduced aerosol generating formulated product of claim 1, wherein the high molecular weight polymer is a polyethylene oxide having a molecular weight from about 1×10^8 to 3.0×10^8 .
4. (Original) The reduced aerosol generating formulated product of claim 1, wherein the high molecular weight polymer is a polyacrylamide having a molecular weight from about 2.5×10^7 to 4.0×10^7 .
5. (Original) The reduced aerosol generating formulated product of claim 1, wherein the personal care product is a shower or bath gel.
6. (Original) The reduced aerosol generating formulated product of claim 1 wherein the cleaning product is selected from a detergent, hard surface cleaner, prespotting cleaner, and carpet cleaner.
7. (Original) The reduced aerosol generating formulated product of claim 1, wherein the D_{v50} of the formulated product is in the range of 55μm - 200μm.

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8. (Original) The reduced aerosol generating formulated product of claim 1, wherein the D_{v50} of the formulated product is greater than 60 µm.

9. (Original) The reduced aerosol generating formulated product of claim 1, wherein the D_{v50} of the formulated product is greater than 100 µm.

10. (Original) The reduced aerosol generating formulated product of claim 1, wherein the formulated product further comprises an enzyme.

11. (Original) The reduced aerosol generating formulated product of claim 6, wherein the enzyme is selected from the group consisting of proteases, amylases, cellulases, oxidases and lipases.

12. (Currently amended) A method of reducing aerosol generation from a personal care or cleaning product comprising incorporating into said product an aqueous composition comprising a high molecular weight polymer selected from polyethylene oxide, polyacrylamide, substituted acrylamides, and gums, the high molecular weight polymer having a molecular weight from about 0.8 x 10⁸ to 4.0 x 10⁷, resulting in a formulated product wherein a D_{v50} of said formulated product is between 10 to 200% greater than the D_{v50} of the corresponding non-formulated personal care or cleaning product.

13. (Original) A method according to claim 12, wherein an enzyme is incorporated into said formulated product either in combination with the high molecular weight polymer aqueous composition or separately from the high molecular weight polymer aqueous composition.

14. (Currently amended) The method according to claim 13, wherein the enzyme concentration of the formulated product comprises about 0.0001% to about 540.0%.

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15. (Currently amended) The method according to claim 12, wherein the ~~high molecular weight polymer is selected from polyethylene oxide, polyacrylamide, substituted acrylamides, acrylamide copolymers, and gums, and the formulated product comprises from 0.0001% to about 510.0% of the polymer.~~
16. (Original) The reduced aerosol generating formulation produced by the method of claim 12.
17. (Currently amended) A method of decreasing enzyme exposure from a personal care or cleaning product comprising reformulating a personal care or cleaning product which includes one or more enzymes with an aqueous composition which comprises a polyethylene oxide polymer having a molecular weight of about 0.8×10^6 to 4.0×10^6 or a polyacrylamide polymer having a molecular weight of about 2.5×10^7 to about 4.0×10^7 wherein said polymer acts as is an anti-misting agent.
18. (Original) The method according to claim 17, wherein the personal care product is a shower or bath gel, facial cleaner, lotion, hair shampoo, or bar or liquid soap.
19. (Original) The method according to claim 17, wherein the cleaning product is a detergent, hard surface cleaner, pre-spotting cleaner, or carpet cleaner.
20. (Original) The method according to claim 17, wherein the enzyme is a protease.
21. (Currently amended) An aqueous anti-misting enzyme composition comprising
 - a) from about 1×10^{-4} to 45.0 wt% of one or more water soluble high molecular weight polymers; and
 - b) from about 1×10^{-4} to 10 wt% of an effective amount of one or more enzymes.
22. (Currently amended) The anti-misting enzyme composition of claim 21, wherein

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the high molecular weight polymer is selected from a polyethylene oxide, a polyacrylamide, substituted acrylamides, acrylamide copolymers, and gums.

23. (Original) The anti-misting enzyme composition of claim 21, wherein the high molecular weight polymer is a polyethylene oxide having a molecular weight from about 1×10^8 to 3.0×10^8 or a polyacrylamide having a molecular weight from about 2.5×10^7 to 4.0×10^7 .

24. (Original) The anti-misting enzyme composition of claim 21, wherein the composition is further incorporated into a personal care product.

25. (Original) The anti-misting enzyme composition of claim 24, wherein the personal care product is selected from the group consisting of shower or bath gels, facial cleaners, lotions, hair shampoos, bar soaps, and liquid soaps.

26. (Original) The anti-misting enzyme composition of claim 21, wherein the composition is further incorporated into a cleaning product.

27. (Original) The anti-misting enzyme composition of claim 26, wherein the cleaning product is selected from the group consisting of detergents, hard surface cleaners, pre-spotting cleaners, and carpet cleaners.

28. (Original) The anti-misting enzyme composition of claim 21 further comprising an enzyme stabilizer.

29. (Original) The anti-misting enzyme composition of claim 28 wherein the enzyme stabilizer is propylene glycol.

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30. (Currently amended) A method for producing a reduced aerosol generating composition comprising combining 0.0001% to about 5.0% of a high molecular weight polymer having a molecular weight of about 0.8×10^6 to about 4×10^7 with an enzyme to obtain a polymer/enzyme composition having reduced aerosol generation, wherein the reduced aerosol generation reduces enzyme exposure.

31. (Original) The method of claim 30 further comprising dispersing the polymer in a water miscible nonsolvent prior to combining the polymer with the enzyme.

32. (Original) The method of claim 30 wherein the combining is conducted at about 35° C.

33. (Original) The method of claim 30 further comprising:

- a) incorporating the polymer/enzyme composition with a personal care or cleaning product composition; and
- b) obtaining a formulated personal care or cleaning product composition wherein when said formulated product is used in a desired environment the generation of aerosols produced by the formulated product is reduced compared to a corresponding non-formulated product.

34. (Currently amended) A method of reducing aerosol generation of a formulation comprising

reformulating a personal care formulation or cleaning formulation with a composition comprising a polyethylene oxide polymer having a molecular weight from about 0.8×10^6 to 4.0×10^6 and comprising from about 0.0001% to about 495.0% of the formulation, wherein the addition of the polymer increases a D_{v50} of the personal care formulation by 10 - 200% resulting in a reduced aerosol generation from the personal care or cleaning formulation.

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35. (Original) The method according to claim 35, wherein the reformulated personal care or cleaning formulation further comprises one or more enzymes.

36. (Currently amended) A shower gel comprising a high molecular weight polymer wherein said polymer has a molecular weight from about 0.8×10^8 to 4.0×10^7 and comprises from about 0.0001% to about 45.0% of the shower gel; a protease comprising about 0.0001% to about 10% of the shower gel; and one or more further personal care product ingredients wherein said shower gel has a Dv₅₀ that is 10 - 200% greater than a corresponding shower gel lacking the high molecular weight polymer.